



Service Manual – Digital Interlock Grinders

FIND OUT MORE
ON THE WEB
WILBURCURTIS.COM

MODELS INCLUDED

- ◆ ILGD
- ◆ TL-ILGD



ILGD

DIGITAL INTERLOCK COFFEE GRINDERS

WILBUR CURTIS COMPANY • MONTEBELLO, CA USA

FOR THE LATEST SPEC INFORMATION GO TO WWW.WILBURCURTIS.COM



TABLE OF CONTENTS

Safeguards/Conventions	2
Contents & Unpacking.....	3
Quick Start and Set-up.....	3
Operating Instructions	3
Troubleshooting Guide	4
Care & Maintenance.....	4
Adjusting Grinds	5
Changing Broken Shear Disk.....	5
Lubricaiton	5
Current.....	5
Programming.....	6
Rough-In Drawings.....	6
Electrical Schematics	7
Parts Diagrams.....	8 & 9
Parts List	10
Warranty	11

IMPORTANT SAFEGUARDS/ CONVENTIONS

IMPORTANT SAFEGUARDS/CONVENTIONS

This appliance is designed for commercial use. Any servicing other than cleaning and maintenance should be performed by an authorized Wilbur Curtis service center.

- *Do NOT immerse the unit in water or any other liquid*
- *No user serviceable parts are located inside. Repair should be done only by authorized service personnel.*
- *Keep hands and other items out of the hopper during operation.*
- *Never clean with scouring powders or abrasive cleaning tools (see Care & Maintenance).*

CONVENTIONS



WARNINGS – TO HELP AVOID PERSONAL INJURY



IMPORTANT NOTES/CAUTIONS – FROM THE FACTORY

CONTENTS AND UNPACKING

SHIPPING CARTON CONTENTS & UNPACKING

UNPACKING

All products manufactured by the Wilbur Curtis Company are thoroughly inspected at the factory, and are warranted to be free of all defects and faulty workmanship. Each grinder is packaged for maximum protection during shipping. Make sure the shipping carton is not damaged or punctured. Unpack the carton carefully, inspecting the contents for any damage that may have occurred in transit.

Quantity		Item	Part No.
ILGD	TL-ILGD		
1		Dual Hopper Digital InterLock Coffee Grinder	ILGD
	1	Dual Hopper Digital ThermoLogic Coffee Grinder	TL-ILGD
1	1	Service Manual	F-3117

QUICK START & SET-UP

SETUP STEPS

1. Read this manual before attempting to operate the coffee grinder.
2. Unpack the carton contents carefully. Inspect the container at time of delivery, for visual or concealed damage. The carrier must be notified immediately in case of punctured or damaged cartons.
3. This grinder uses a standard electrical outlet of 120VAC, rated at 15 amps.
4. Install the grinder on a level surface.
5. Test the unit by running some whole bean coffee through the grinder. If any problems are encountered, refer to the troubleshooting section of this manual.

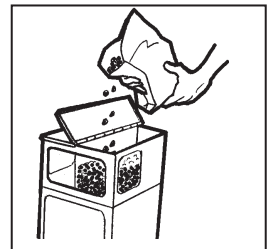
GRINDER REQUIREMENTS

- Electrical

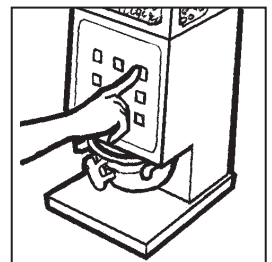
See attached schematic for your model

OPERATING INSTRUCTIONS

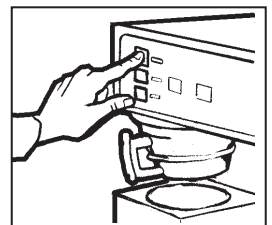
1. Open the door on top of the grinder and fill with fresh whole bean coffee. Close the top door.
2. Place a new coffee filter into a clean brewcone.



3. Insert the brewcone into the basket holder arms on the grinder.
4. Press the appropriate grind switch.
5. Allow the grind motor to completely stop before removing the brewcone.



6. Transfer the filled brewcone to the brewer and begin brewing.



TROUBLE- SHOOTING GUIDE



This appliance is designed for commercial use. Any servicing other than cleaning and maintenance should be performed by an authorized Wilbur Curtis service center.

SYMPTOM: MOTOR DOES NOT RUN

POSSIBLE CAUSE	SOLUTION
1. Circuit breaker may be tripped.	Grinder has a circuit breaker behind machine. Push in reset button. You should hear a "click".
2. Electrical cord may not be making contact.	Push plug into outlet.
3. Electrical outlet may not have power.	With voltmeter, determine if there is power at outlet.

SYMPTOM: MOTOR RUNS BUT NO COFFEE COMES OUT

POSSIBLE CAUSE	SOLUTION
4. Shear disk may have broken.	Change the shear disk (see page 6 for directions).
5. Funnel to grind housing may be jammed.	Cut off power to machine. Empty the hopper of beans. Clean where the hopper funnels into the grind housing.

SYMPTOM: GROUND COFFEE TEXTURE IS TOO COARSE OR OF POOR QUALITY

POSSIBLE CAUSE	SOLUTION
6. grinding burrs may be worn.	Readjust the grind (see page 6).
7. housing cover may not be on straight or not seating correctly.	Pull off the cover and clean the mounting surfaces. Reassemble the housing.

CARE & MAINTENANCE

REGULAR AND PREVENTIVE MAINTENANCE IS ESSENTIAL IN KEEPING YOUR GRINDER LOOKING AND WORKING LIKE NEW.

– CLEANING

1. The stainless steel outside case of the grinder may be cleaned with stainless steel polish.
2. Clean the hopper with a damp cloth.
3. You can clean inside the grinder housing with a stiff bristled brush to get out all of the old coffee grounds. Refer to section on adjusting the grinds to open the housing. While cleaning the grinder, do not wet inside the grinder housing.

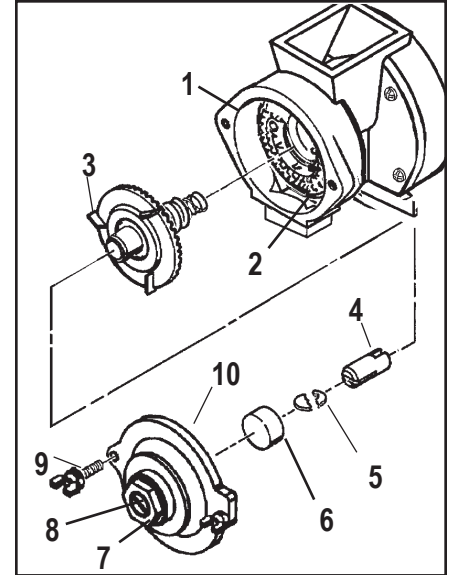


CAUTION: Do not use any substance containing chlorine. These products will promote corrosion.

ADJUSTING THE GRINDS*

1. Empty hopper of coffee beans. Run grinder to clear grinding burrs of coffee.
2. Open housing cover to locate adjustment screw (8) and lock nut (7). Loosen lock nut.
3. Run motor during adjustment. Turning adjustment screw clockwise will result in a finer grind (if, while turning, you hear the grinding burrs starting to touch, immediately, back off 1/8th turn). Turning counter clockwise will produce a coarser grind.
4. With a screwdriver holding the adjustment screw in place, tighten the locknut.
5. Run some coffee beans through the machine to check the grind adjustment.
6. Replace front cover on machine.

*This adjustment may change the amount of ground coffee dispensed.



CHANGING A BROKEN SHEAR DISK

1. Unplug the power cord.
2. Empty the hopper of beans.
3. Take out the thumb screws (9) to remove the grind cap (10).
4. Pull out the grinding burr/feed worm assembly (3). The inner half of the grinding burr set (2) will remain in the housing.
5. Separate the shear cap (6) and shear drive (4). The snapped shear disk (5) should fall out of its slot on the shear drive.
6. Inspect and clean housing (1) of any coffee or debris. Especially look for pieces that may have caused the shear disk to break.
7. Re-insert the feed worm and grinding burr on to the motor shaft.
8. Push shear drive through burr/feed worm assembly and align large slot with tongue on the motor shaft.
9. Rotate burr/feed worm assembly to align slot with narrow slot on shear drive.
10. Insert a new shear disk into slot. Cover with the shear cap.
11. Replace grind cap and thumb screws.

LUBRICATION

All mechanisms, including the motor bearings, have been oiled for life. No additional lubrication is necessary.

CURRENT


When hooking up the grinder, full voltage is absolutely necessary for grinding power. Serious damage may occur to the motor if you run it on an overloaded circuit.

PROGRAMMING THE GRINDER

PROGRAMMING THE ILGD & TL-ILGD GRINDER

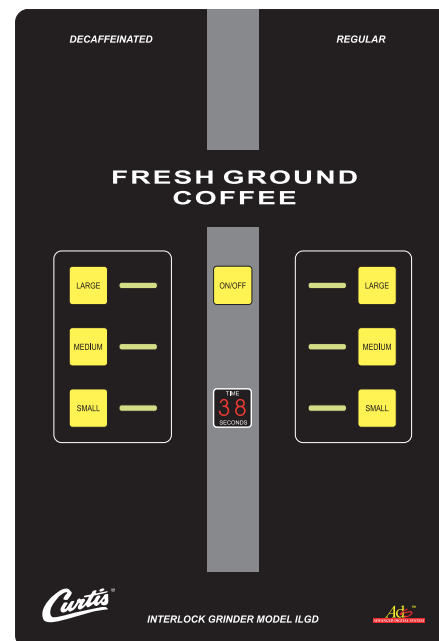
Your grinder has been adjusted at the time of manufacture to provide satisfactory performance in most situations. In the event that you would like to vary the settings the grinder can be reprogrammed. Both grinders are programmed identically.

1. Place a paper filter beneath the grinder spout to catch coffee as it is ground.
2. Turn off the unit at the front panel, ON/OFF button.
3. Press and hold one of the grind buttons.
4. Press and release the ON/OFF button. Continue holding the grind button.
5. In the red window, the grind time on the button pressed will appear. Continue to hold and the time digits will start at 00 and increase. Release the button to set the new time. The table (left) can be used as a guide to estimate the amount of ground coffee you dispense with the chosen setting.
6. Wait for the motor to completely stop (10 seconds). To set and exit, press and release any other grind button.
7. Repeat the above steps to reset any other grind button.



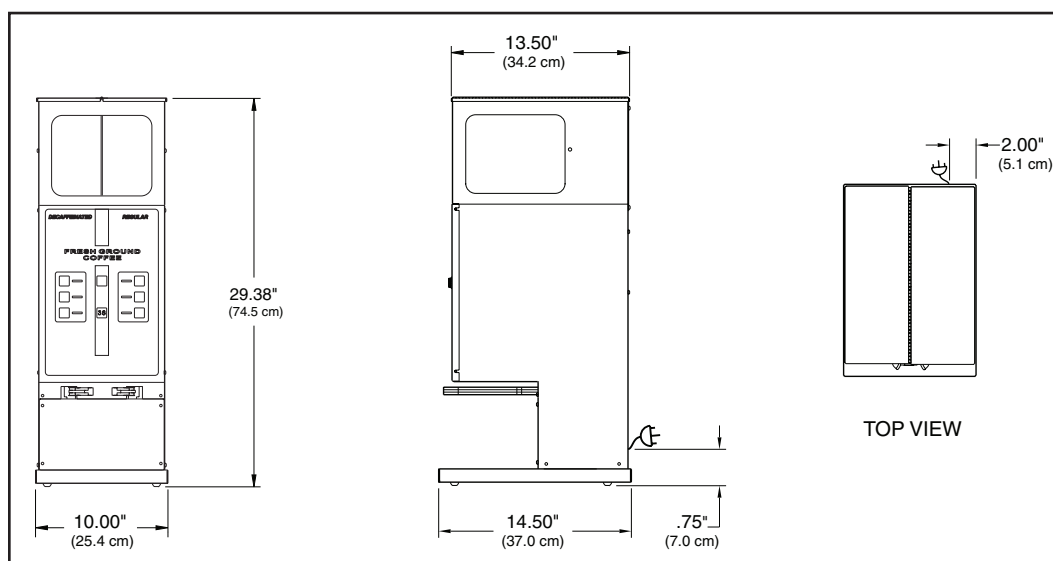
Time settings in this table are only approximate. Amounts will vary with grind texture and specific coffee bean. Weigh your output, then make adjustments as necessary.

Seconds	Ounces	Seconds	Ounces
4	1.3	15	4.5
5	1.5	20	6.2
6	1.8	25	7.6
7	2.0	30	8.8
8	2.5	35	10.0
10	3.0	40	11.8
12	3.7	45	13.5



ROUGH-IN DRAWINGS

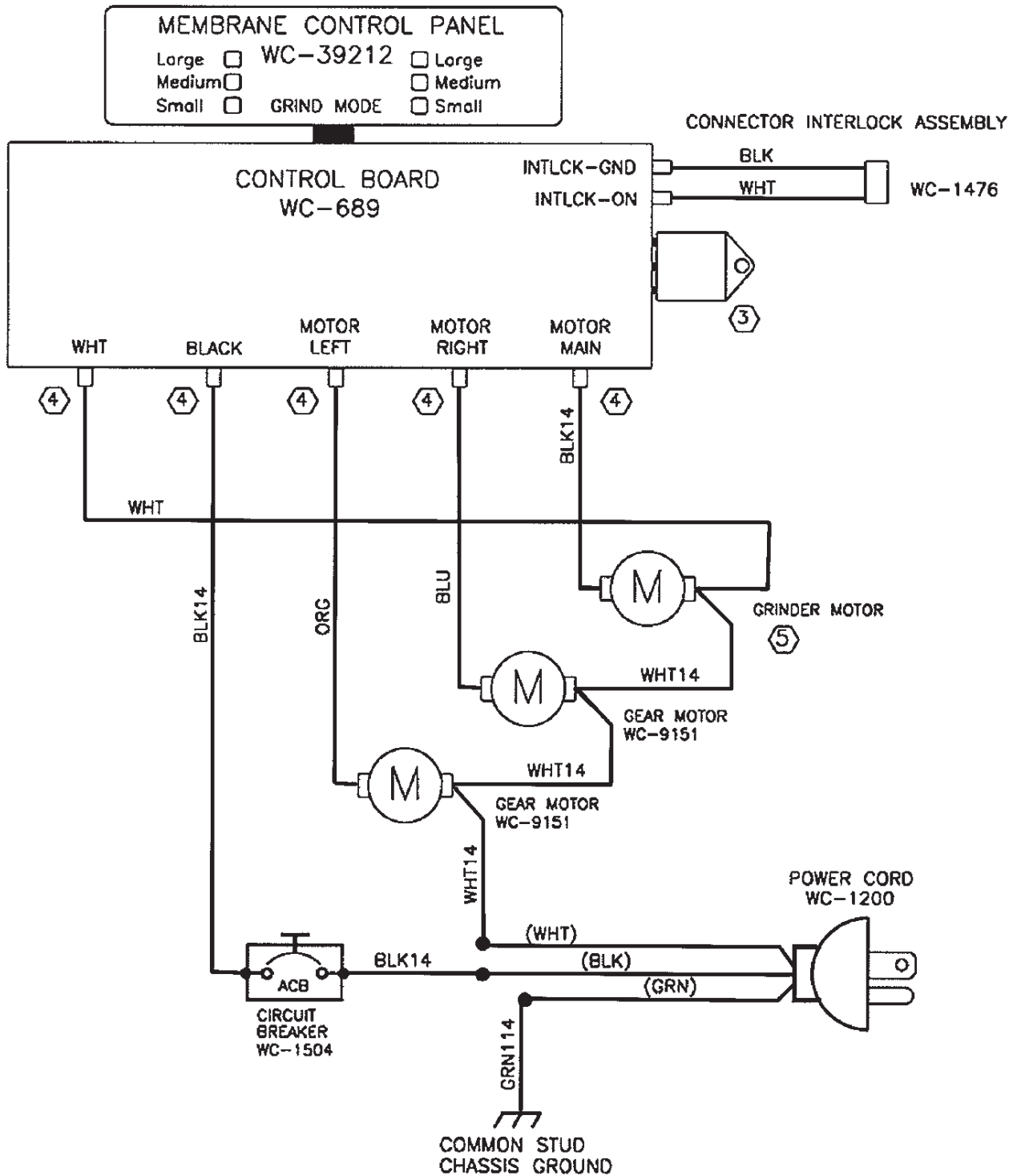
ILGD / TL-ILGD



ELECTRICAL SCHEMATICS

ILGD / TL-ILGD

DIAGRAM NO.	PART NO.	WIRES	CYCLE	POWER	DRAWN BY:	CHECKED:	APPROVED:	FOR/ECN NO.:	REV:
WD-ILGD-10	ILGD-10 GRINDER DIGITAL INTERLOCK	2+GND PHASE SINGLE	60 VOLTAGE 120	1/2 HP AMPERAGE 8	MOD DATE: 3/2/2000	<i>ADP</i> DATE: 3/2/2000	<i>Ad</i> DATE: 3.2.00	3584	E

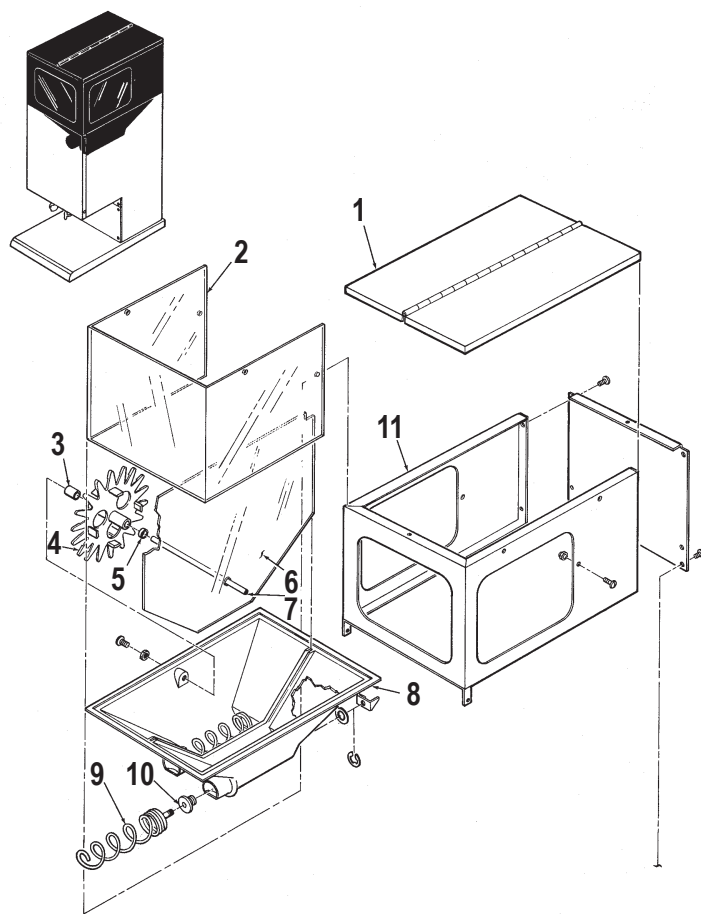


- (5) USE WC-9135 FOR PRIMARY MOTOR AND WC-9150 AS AN ALTERNATE.
- (4) WHEN APPLICABLE USE FLAG TYPE .250 QUICK DISCONNECT TERMINALS.
- (3) DO NOT OPERATE UNIT (PCBOARD) WITHOUT HEATSINKING THE TRIAC.
USE HEATSINK ASSEMBLY, WC-6813.
- 2 DO NOT CHANGE NOR SUBSTITUTE WIRE COLORS.
- 1 ALL WIRES SHALL BE TEFLON PER UL1330 OR UL APPROVED APPLIANCE WIRE.

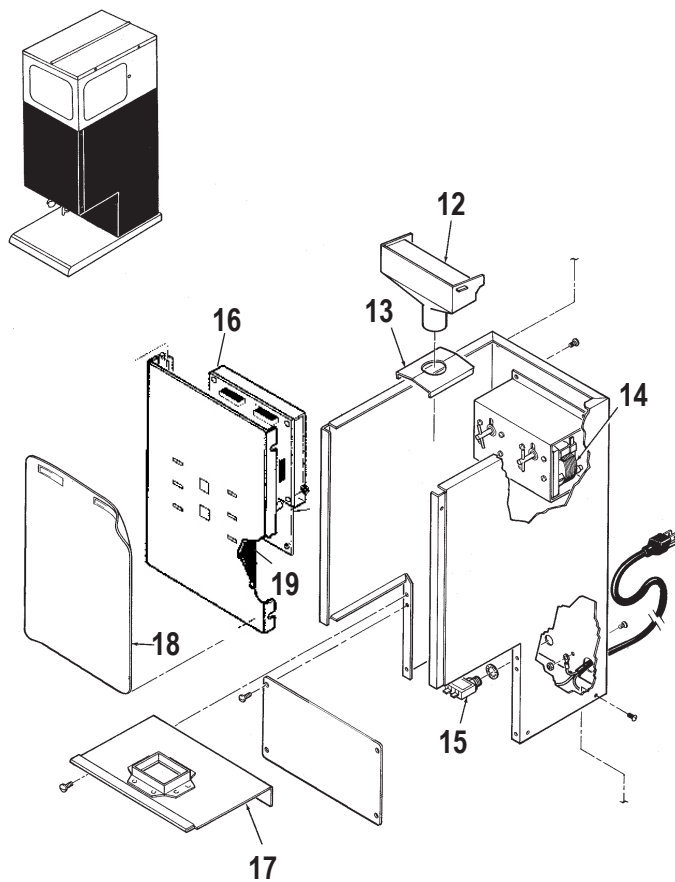
NOTE: UNLESS OTHERWISE SPECIFIED

PARTS DIAGRAMS

HOPPER &
TOP COVER

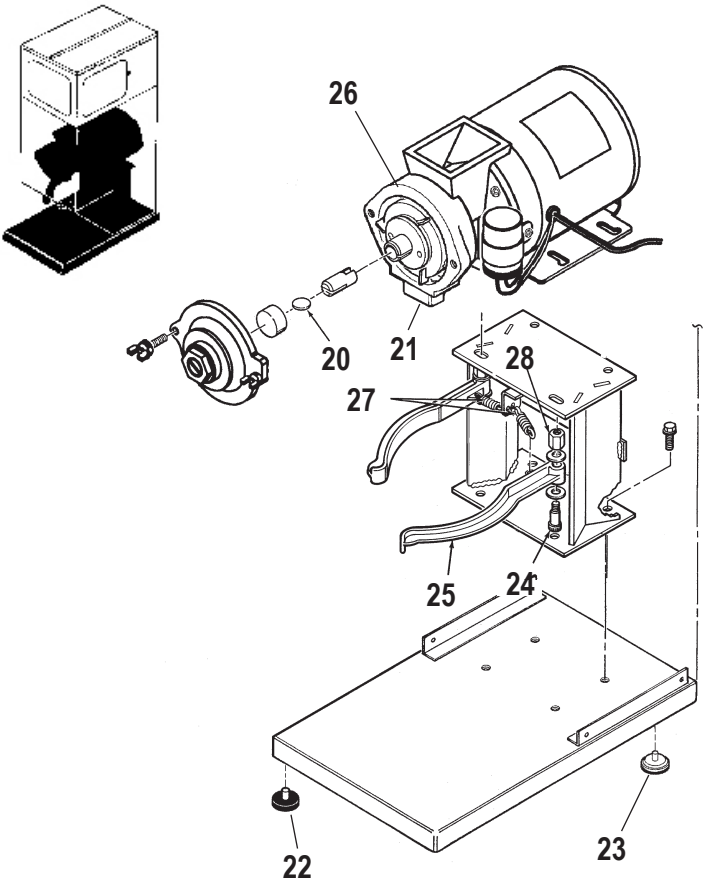


CENTER
COVER &
GEARMOTOR



PARTS
DIAGRAMS

MOTOR &
BASE



PARTS LIST

ITEM N°	PART N°	DESCRIPTION
1	WC-9118	COVER, HOPPER DUAL GRINDER ASSY
2	WC-9131	WINDOW, ACRYLIC DUAL GRINDER
* 3	WC-9143	SPACER, 5/8" AGITATION WHEEL (OPTIONAL)
* 4	WC-9160	WHEEL, GRINDER AGITATION CCG (OPTIONAL)
* 5	WC-9144	SPACER, 9/32" AGITATION WHEEL (OPTIONAL)
6	WC-9132	DIVIDER, DUAL HOPPER, SS (AS SHOWN, OPTIONAL)
6A	WC-9188	DIVIDER, W/HOLE ILG-11/DHG-11
* 7	WC-9142	SHAFT AGITATION WHEEL (OPTIONAL)
8	WC-9116	DUAL HOPPER GRINDER ASSY
9	WC-9158	AUGER ASSY DHG/ILG/ILGD
10	WC-9183	BEARING, AUGER BR
11	WC-91013	WRAP, DUAL HOPPER ILGD
12	WC-9130	FUNNEL, DHG/ILGD
13	WC-9134	SHEILD, HOUSING, ILGD/ILG/SHG/DHG
14	WC-9151	MOTOR, GEAR 115V DUAL GRINDER
15	WC-1504	BREAKER, CIRCUIT 10A 120/250VAC
16	WC- 689*	CONTROL BOARD, ILGD, DHGILD
17	WC-9164	COVER ASSEMBLY, SPOUT (OPTIONAL FOR DHG-20)
17A	WC-9126	GUIDE, SPOUT W/A SHG DHG ILGD
18	WC-39212	MEMBRANE CONTROL PANEL, ILGD
18A	WC-39248	MEMBRANE CONTROL PANEL, TL-ILGD
19	WC-3796	LABEL, ADJUSTMENT INFO SHG, DHG
20	WC-9107-6*	DISK, SHEAR COFFEE GRINDER 6PK
21	WC-37283	KIT, GRINDER CHUTE NEW STYLE
22	WC-3503	LEG, 3/8"-16 STUD SCREW BUMPER
22A	WC-3502	LEG, SCREW BUMPER 8/32 STUD (OLDER UNITS)
23	WC-3518	LEG, GLIDE 3/8"-16 STUD SCREW
24	WC-4813	SCREW, SHOULDER, 5/16 x 5/8
25	WC-9141	BASKET HOLDER ASSY
26	WC-9135	MOTOR, CRUSHING GRINDER ASSY 120VAC SHG/DHG/ILGD
27	WC-9155	SPRING, BASKET HOLDER
28	WC-9123	NUT, HEX ADAPTER GRINDER

* RECOMMENDED PARTS TO STOCK

Product Warranty Information

The Wilbur Curtis Company certifies that its products are free from defects in material and workmanship under normal use. The following limited warranties and conditions apply:

3 Years, Parts and Labor, from Original Date of Purchase on digital control boards.

2 Years, Parts, from Original Date of Purchase on all other electrical components, fittings and tubing.

1 Year, Labor, from Original Date of Purchase on all electrical components, fittings and tubing.

Additionally, the Wilbur Curtis Company warrants its Grinding Burrs for Forty (40) months from date of purchase or 40,000 pounds of coffee, whichever comes first. Stainless Steel components are warranted for two (2) years from date of purchase against leaking or pitting and replacement parts are warranted for ninety (90) days from date of purchase or for the remainder of the limited warranty period of the equipment in which the component is installed.

All in-warranty service calls must have prior authorization. For Authorization, call the Technical Support Department at 1-800-995-0417. Effective date of this policy is April 1, 2003.

Additional conditions may apply. Go to www.wilburcurtis.com to view the full product warranty information.

CONDITIONS & EXCEPTIONS

The warranty covers original equipment at time of purchase only. The Wilbur Curtis Company, Inc., assumes no responsibility for substitute replacement parts installed on Curtis equipment that have not been purchased from the Wilbur Curtis Company, Inc. The Wilbur Curtis Company will not accept any responsibility if the following conditions are not met. The warranty does not cover and is void under the following circumstances:

- 1) Improper operation of equipment: The equipment must be used for its designed and intended purpose and function.
- 2) Improper installation of equipment: This equipment must be installed by a professional technician and must comply with all local electrical, mechanical and plumbing codes.
- 3) Improper voltage: Equipment must be installed at the voltage stated on the serial plate supplied with this equipment.
- 4) Improper water supply: This includes, but is not limited to, excessive or low water pressure, and inadequate or fluctuating water flow rate.
- 5) Adjustments and cleaning: The resetting of safety thermostats and circuit breakers, programming and temperature adjustments are the responsibility of the equipment owner. The owner is responsible for proper cleaning and regular maintenance of this equipment.
- 6) Damaged in transit: Equipment damaged in transit is the responsibility of the freight company and a claim should be made with the carrier.
- 7) Abuse or neglect (including failure to periodically clean or remove lime accumulations): Manufacturer is not responsible for variation in equipment operation due to excessive lime or local water conditions. The equipment must be maintained according to the manufacturer's recommendations.
- 8) Replacement of items subject to normal use and wear: This shall include, but is not limited to, light bulbs, shear disks, "O" rings, gaskets, silicone tube, canister assemblies, whipper chambers and plates, mixing bowls, agitation assemblies and whipper propellers.
- 9) Repairs and/or Replacements are subject to our decision that the workmanship or parts were faulty and the defects showed up under normal use. All labor shall be performed during regular working hours. Overtime charges are the responsibility of the owner. Charges incurred by delays, waiting time, or operating restrictions that hinder the service technician's ability to perform service is the responsibility of the owner of the equipment. This includes institutional and correctional facilities.

The Wilbur Curtis Company will allow up to 100 miles, round trip, per in-warranty service call.

RETURN MERCHANDISE AUTHORIZATION: All claims under this warranty must be submitted to the Wilbur Curtis Company Technical Support Department prior to performing any repair work or return of this equipment to the factory. All returned equipment must be repackaged properly in the original carton. No units will be accepted if they are damaged in transit due to improper packaging. **NO UNITS OR PARTS WILL BE ACCEPTED WITHOUT A RETURN MERCHANDISE AUTHORIZATION (RMA). RMA NUMBER MUST BE MARKED ON THE CARTON OR SHIPPING LABEL.** All in-warranty service calls must be performed by an authorized service agent. Call the Wilbur Curtis Technical Support Department to find an agent near you.



WILBUR CURTIS COMPANY, INC.

6913 Acco Street • Montebello, CA 90640-5403 USA

Phone: 800-995-0417 (M-F 5:30A - 4:00P PST) • Fax: 323-837-2410

Technical Support email: TechSupport@wilburcurtis.com

www.wilburcurtis.com

3/09 . F-3117 rev.C